

CABLE MODEM FOR CONNECTING CUSTOMER PREMISES EQUIPMENT AND METHOD OF CONTROLLING FLOW OF DATA BETWEEN CABLE MODEM AND CUSTOMER PREMISES EQUIPMENT

ABSTRACT OF THE DISCLOSURE

A cable modem for connecting Customer Premises Equipment (CPE) includes a Media Access Control (MAC) layer controller, a Logical Link Control (LLC) bridge (113) interacting with the MAC layer controller, an IP stack processing IP frames and interacting with the LLC bridge (113), CPE interfaces (115, 116 and 117) and a multiplexer (114) of Customer Premises Equipment (CPE) interfaces linked to the CPE interfaces and to the LLC bridge (113). The CPE interfaces (115, 116 and 117) communicate with the multiplexer (114) through appropriate functions. The multiplexer (114) has functionality allowing for servicing the flow of frames between the cable network and the interfaces linked to it, directing the received frames to appropriate interfaces.